

1639  
PATENT

Docket No.: 19603/3357 (CRF D-1595G)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Barany et al.

Serial No. : 09/986,527

Cnfrm. No. : 5780

Filed : November 9, 2001

For : DETECTION OF NUCLEIC ACID SEQUENCE  
DIFFERENCES USING THE LIGASE  
DETECTION REACTION WITH  
ADDRESSABLE ARRAYSExaminer:  
P. PonnaluriArt Unit:  
1639FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §§ 1.97-1.98**Mail Stop: Amendment**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR §§ 1.97-1.98, applicants hereby bring to the attention of the United States Patent and Trademark Office, the references listed on the attached PTO/SB/08 form.

Pursuant to 37 CFR § 1.17(p) and 37 CFR § 1.97(c), applicants hereby enclose a check in the amount of \$180.00. The Commissioner is authorized to charge any additional fees or credit any overpayment to Deposit Account No. 14-1138.

10/18/2005 HLE333 00000116 09986527

01 FC:1806 \$180.00 DP

Respectfully submitted,

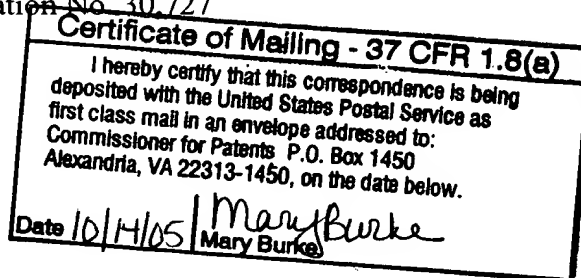
Date: October 14, 2005

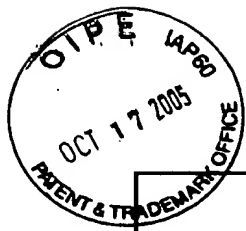
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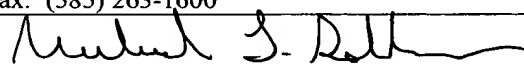
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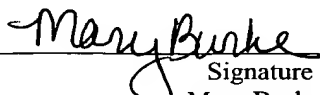


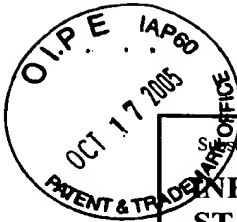


<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>		Application Number	09/986,527
		Filing Date	November 9, 2001
		First Named Inventor	Barany et al.
		Group Art Unit	1639
		Examiner Name	P. Ponnaluri
Total Number of Pages in This Submission	3 pages and 14 cited references	Attorney Docket Number	19603/3357 (CRF D-1595G)

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Fourth Supplemental Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> A copy of the Notice to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Declaration and Power of Attorney <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Application Data Sheet <input type="checkbox"/> Request for Corrected Filing Receipt with Enclosures <input checked="" type="checkbox"/> A self-addressed, prepaid postcard for acknowledging receipt <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):  PTO/SB/08 (1 page) (in duplicate) 14 references (i.e. Reference Cite Nos. 8-21) Check for \$180.00
Remarks	<input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees required or credit any overpayments to Deposit Account No. 14-1138 for the above identified docket number.	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Michael L. Goldman Nixon Peabody LLP Clinton Square, P.O. Box 31051 Rochester, New York 14603-1051 Telephone: (585) 263-1304 Fax: (585) 263-1600
Signature	 Registration No. 30,727
Date	October 14, 2005

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/986,527		
				Filing Date	November 9, 2001		
				First Named Inventor	Barany et al.		
				Art Unit	1639		
				Examiner Name	P. Ponnaluri		
				Attorney Docket Number	19603/3357 (CRF D-1595G)		
U.S. PATENT DOCUMENTS							
Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	U.S. Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number - Kind Code <sup>2</sup> (if known)					
	1	US-5,104,792		04-14-1992	Silver et al.		
	2	US-5,510,270		04-23-1996	Fodor et al.		
	3	US-5,512,441		04-30-1996	Ronai		
	4	US-2003/0175750 A1		09-18-2003	Barany et al.		
	5	US-6,852,487		02-08-2005	Barany et al.		
	6	US-5,932,711		08-03-1999	Boles et al.		
	7	US-5,868,136		02-09-1999	Fox et al.		
FOREIGN PATENT DOCUMENTS							
Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	8	EP 0 624 643 A2		11-17-1994	Fraiser et al.		
	9	EP 0 628 640 A1		12-14-1994	Walker et al.		
	10	WO 95/35390		12-28-1995	Zhang		
	11	WO 97/31256		08-28-1997	Barany et al.		
	12	EP 0 357 011 A2		08-30-1989	Laffler et al.		
	13	EP 0 387 696 A2		03-08-1990	McMahan et al.		
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS							
Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					T <sup>2</sup>
	14	"Nucleic Acid Hybridisation: A Practical Approach," B.D. Hames & S.J. Higgins eds., IRL Press, Oxford, Washington D.C., pp. 5-7 (1985)					
	15	HSUIH et al., "Novel, Ligation-Dependent PCR Assay for Detection of Hepatitis C Virus in Serum," <i>J. Clin. Microbiol.</i> 34(3):501-507 (1996)					
	16	JANSSEN et al., "Evaluation of the DNA Fingerprinting Method AFLP as a New Tool in Bacterial Taxonomy," <i>Microbiology</i> 142:1881-1893 (1996)					
	17	ZEBALA et al., "Characterization of Steady State, Single-Turnover, and Binding Kinetics of the <i>TaqI</i> Restriction Endonuclease," <i>J. Biol. Chem.</i> 267(12):8097-8105 (1992)					
	18	ZEBALA et al., "Implications for the Ligase Chain Reaction in Gastroenterology," <i>J. Clin. Gastroenterol.</i> 17(2):171-175 (1993)					
	19	ZIRVI et al., "Improved Fidelity of Thermostable Ligases for Detection of Microsatellite Repeat Sequences Using Nucleoside Analogs," <i>Nucleic Acids Res.</i> 27(24):e41 (1999)					
	20	ZIRVI et al., "Ligase-Based Detection of Mononucleotide Repeat Sequences," <i>Nucleic Acids Res.</i> 27(24):e40 (1999)					
	21	"Acrylamide" <i>Wikipedia Encyclopedia</i> , Retrieved from the internet at <a href="http://en.wikipedia.org/wiki/Acrylamide">http://en.wikipedia.org/wiki/Acrylamide</a> on September 15, 2005					
Examiner Signature				Date Considered			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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